



#15

HMR2053usnp1.ST25
SEQUENCE LISTING

<110> AVENTIS PHARMACEUTICALS INC.
GUO, Yong
MORSE, Clarence
YAO, Zhengbin

<120> MEMBRANE PENETRATING PEPTIDES AND USES THEREOF

<130> HMR2053 USNP1

<140> 09/933,780

<141> 2001-08-21

<150> US 60/27,647

<151> 2000-08-25

<150> GB 0103110.3

<151> 2001-02-07

<160> 54

<170> PatentIn version 3.0

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<211> 10

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<220>

<223> Signal sequence peptide from Antennapedia homeodomain

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Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
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<210> 3

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<223> The fibroblast growth factor signal sequence peptide

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<400> 3

Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu Leu Ala
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Cys Phe Ile Thr Lys Ala Leu Gly Ile Ser Tyr Gly Arg Lys Lys Arg
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Arg Gln Arg Arg Arg Pro Pro Gln Gly Ser Gln Thr His
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<223> Fragment of IFN-gamma

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Arg Lys Arg Lys Arg Ser Arg
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Asn Tyr Lys Lys Pro Lys Leu

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Lys Lys Pro Leu Gln Leu Ile
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Gly Phe Leu Gly
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Asp Asp Asp Asp Lys
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Glu Tyr Phe Pro
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Lys	Arg	Arg	Gln	Arg	Arg	Arg
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Gly	Met	Asp	Tyr	Lys	Asp	Asp	Asp	Asp	Lys	Gly	Tyr	Gly	Arg	Lys	Lys
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Asp Asp Lys

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Lys

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<212> PRT

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<220>

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 1 5 10

<210> 25
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Gly Asp Pro Lys Lys Lys Arg Lys Val
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Gly Lys Lys Thr Gly Lys Asn Arg Lys Leu Lys Ser Lys Arg Val Lys
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Pro Arg Asp

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Gly Arg Lys Gly Lys His Lys Arg Lys Lys Leu Pro
 1 5 10

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Gly Lys Arg Val Ala Lys Arg Lys Leu Ile Glu Gln Asn Arg Glu Arg
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Arg Arg

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Gly	Arg	Lys	Leu	Lys	Lys	Lys	Lys	Asn	Glu	Lys	Glu	Asp	Lys	Arg	Pro
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Arg Thr

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Gly	Lys	Lys	Thr	Asn	Leu	Phe	Ser	Ala	Leu	Ile	Lys	Lys	Lys	Lys	Thr
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Ala

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Gly	Arg	Arg	Glu	Arg	Asn	Lys	Met	Ala	Ala	Ala	Lys	Cys	Arg	Asn	Arg
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Arg Arg

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Gly Lys Arg Ala Arg Asn Thr Glu Ala Ala Arg Arg Ser Arg Ala Arg
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Lys Leu

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Gly Arg Arg Arg Arg Ala Thr Ala Lys Tyr Arg Thr Ala His
 1 5 10

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Gly Lys Arg Arg Arg Arg Ala Thr Ala Lys Tyr Arg Ser Ala His
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Gly Arg Arg Arg Arg Lys Arg Leu Ser His Arg Thr
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Gly Arg Arg Arg Arg Arg Glu Arg Asn Lys
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Gly Lys His Arg His Glu Arg Gly His His Arg Asp Arg Arg Glu Arg
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<400> 38

Gly Lys Lys Lys Arg Lys Leu Ser Asn Arg Glu Ser Ala Lys Arg Ser
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Arg

<210> 39
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<210> 40
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Ser Ala Arg His His Cys Arg Ser Lys Ala Lys Arg Ser Arg His His
 1 5 10 15

<210> 41
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<400> 41

Ser Arg Ala His His Cys Arg Ser Lys Ala Lys Arg Ser Arg His His
1 5 10 15

<210> 42

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1 5 10 15

<210> 43

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1 5 10 15

<210> 44

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<400> 44

Ser Arg Arg His His Ala Arg Ser Lys Ala Lys Arg Ser Arg His His
1 5 10 15

<210> 45

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<210> 46
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 1 5 10 15

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<210> 50
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Ser	Arg	Arg	His	His	Cys	Arg	Ser	Lys	Ala	Lys	Arg	Ser	Ala	His	His
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<220>

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<400> 52

Arg	Arg	His	His	Cys	Arg	Ser	Lys	Ala	Lys	Arg	Ser	Arg
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<220>

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